

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	I-H3-1(75), UNIT VI	1999	2	111

H-01	Type A, B, C and D Catch Basin	07/01/86
H-02	Type A1, B1, C1 and D1 Catch Basin	07/01/86
H-03	Type A2, B2, C2 and D2 Catch Basin	07/01/86
H-04 ●	Typical Reinforcing Details for Catch Basins	07/01/86
H-05 ●	Type A, B and C Storm Drain Manhole	07/01/86
H-06	Type D and E Storm Drain Manhole	07/01/86
H-07	Type F Storm Drain Manhole	07/01/86
H-08	Catch Basin and Manhole Casting	07/01/86
H-09 ●	Type A-9 and A-9P Frames and Grates	07/01/86
H-10	Type A-9B Frames and Grates	07/01/86
H-11	Type 61614 and 61214 Grated Drop Inlet	07/01/86
H-12	Type 61616 Grated Drop Inlet	07/01/86
H-13	61214, 61614 & 61616 Steel Frames and Grates	07/01/86
H-14	61214B Steel Frame and Grates	07/01/86
H-15	61614B Steel Frame and Grates	07/01/86
H-16	Concrete and Cement Rubble Masonry Structures	r10/16/90
H-17	Inlet Structures	r10/16/90
H-18	Flared End Section for Culverts	07/01/86
H-19	Outlet Structures	r02/15/91
H-20	Concrete Spillway Inlet	07/01/86
H-21	18" Slotted C.M.P. Drain	07/01/86
H-22	C.M.P. Coupling Details Standard Joint	r10/16/90
H-23	Hat Shaped Coupling Band	r10/16/90

STANDARD PLAN NO.	TITLE	DATE
TE-45	Reserved	07/01/86
TE-46	Reserved	07/01/86
TE-47	Reserved	07/01/86
TE-48	Reserved	07/01/86
TE-49	Reserved	07/01/86
TE-50	Metal Guardrail	03/06/87
TE-51	Metal Guardrail	09/01/87
TE-52	Metal Guardrail with Rubrail	11/03/89
TE-53	Metal Guardrail with Rubrail at Obstruction	09/01/87
TE-54	Beam Type Guardrail with Rubrail at Obstruction (Shoulder Installation)	11/03/89
TE-55	Metal Guardrail Connection to Concrete Barrier	11/03/89
TE-56	Concrete Barrier Transition	07/01/86
TE-57	Guardrail Type 3, Thrie Beam	11/03/89
TE-57A	Guardrail Type 3, Modified Thrie Beam	11/03/89
TE-58	Approach End Flare, One & Two Way Roadway	07/01/86
TE-59	Trailing End Flare, One & Two Way Roadway	11/03/89
TE-60	Anchor Block Details	07/01/86
TE-61	Breakaway Cable Terminal (BCT)	11/03/89
TE-62	Breakaway Cable Terminal (BCT)	09/01/87
TE-63	Guardrail Type 4 (Rigid Barrier)	09/01/87
TE-64 ●	Portable Concrete Barrier	11/03/89
TE-65	Guardrail Type 4, Miscellaneous	09/01/87
TE-66 ●	Barricades	07/01/86
TE-67	Delineation & Pavement Markings at Bridges	07/01/86
TE-68	Wheelchair Ramps	11/03/89
TE-69	Wheelchair Ramps	11/03/89

ORIGINAL PLAN	SURVEY PLOTTED BY _____ DATE _____ DRAWN BY _____
NOTE BOOK	TRACED BY _____ DESIGNED BY _____ QUANTITIES BY _____ CHECKED BY _____
No. _____	

ORIGINAL SURVEY PLOTTED BY _____ DATE _____
DRAWN BY _____
TRACED BY _____
NOTE BOOK _____
DESIGNED BY _____
CHECKED BY _____
No. _____

CAD by J. Minura, SS-52

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SHEET

SHEET NO.

TITLE

G. GENERAL

1	G1	Title Sheet
2	G2	Standard Plan Summary
ADD. 3	G3	List of Plans
4	G4	General Notes and Legend
5	G5	Grading Notes: Erosion and Sediment Control Measures
ADD. 6	G6	Location Map

1. SIGN STRUCTURE MODIFICATIONS

7	1S1	Sign Structures: General Notes
8	1S2	Sign Structures: Plan & Elevation - 1
9	1S3	Sign Structures: Plan & Elevation - 2
10	1S4	Sign Structures: Plan & Elevation - 3
11	1S5	Sign Structures: Plan & Elevation - 4
12	1S6	Sign Structures: Miscellaneous Details - 1
13	1S7	Sign Structures: Miscellaneous Details - 2
14	1S8	Sign Structures: Miscellaneous Details - 3
15	1S9	Sign Structures: Miscellaneous Details - 4
16	1S10	Sign Structures: Foundation
17	1S11	Sign Structures: Existing Sign Structures
18	1C1	Sign Structures: Median Barrier Modification Plan & Elevation
19	1C2	Sign Structures: Median Barrier Modification Details - 1
20	1C3	Sign Structures: Median Barrier Modification Details - 2
21	1C4	Sign Structures: Median Barrier Modification Drainage Details
22	1C5	Sign Structures: Median Barrier Modification & Additional Roadside Guardail
ADD. 22S-1	1C5A	Median Guardrail: Roadway Construction Phase I
ADD. 22S-2	1C5B	Median Guardrail: Roadway Construction Phase I
ADD. 22S-3	1C5C	Median Guardrail: Roadway Construction Phase I
ADD. 22S-4	1C5D	Median Guardrail: Roadway Construction Phase II
ADD. 22S-5	1C5E	Median Guardrail: Roadway Construction Phase II
ADD. 22S-6	1C5F	Median Guardrail: Roadway Construction Phase II
ADD. 22S-7	1C5G	Median Guardrail: Concrete Median Barrier Details & Notes
ADD. 22S-8	1C5H	Median Guardrail: Grated Drop Inlet Details
ADD. 22S-9	1C5I	Median Guardrail: & Light Standard Concrete Median Barrier Reinforcement
ADD. 22S-10	1C5J	Median Guardrail: Concrete Median Barrier Reinforcement Details
ADD. 22S-11	1C5K	Median Guardrail: Likelike Highway Traffic Control Plan - 1
ADD. 22S-12	1C5L	Median Guardrail: Likelike Highway Traffic Control Plan - 2
ADD. 22S-13	1C5M	Median Guardrail: Likelike Highway Traffic Control Plan - 3
ADD. 22S-14	1C5N	Median Guardrail: Likelike Highway Traffic Control Plan - 4
23	1E1	Symbols, Notes, Locations Plan - Interstate Route H-3 (Haiku Approach)
24	1E2	Location Plan - Kaneohe Interchange
25	1E3	Lighting Plan - Interstate Route H-3 (Part A)
26	1E4	Partial Wiring Diagram: Message Signs @ Sta. 262+58.75 & Sta. 262+41.99
27	1E5	Partial Wiring Diagram: Message Signs @ Sta. 264+49.10
28	1E6	Lighting Plan - Interstate Route H-3 (Part B)
29	1E7	Lighting Plan - Kaneohe Interchange (Part A)
30	1E8	Lighting Plan - Kaneohe Interchange (Part B)
31	1E9	Lighting Plan - Kaneohe Interchange (Part C)
32	1E10	Sign Luminaire Detail
33	1E11	Sign Structure Electrical Details
34	1E12	Sign Structure Electrical Details
35	1E13	Sign Structure Electrical Details
36	1E14	Sign Structure Electrical Details
37	1Y1	Sign Structures: Haiku Approach Systems Details - 1
38	1Y2	Sign Structures: Haiku Approach Systems Details - 2
39	1Y3	Sign Structures: Haiku Approach Systems Details - 3
40	1Y4	Sign Structures: Haiku Approach Systems Details - 4
41	1Y5	Sign Structures: Relocated Likelike Highway Systems Details - 5
42	1H1	Boring Location Plan
43	1H2	Boring Log Legend
44	1H3	Boring Logs
45	1H4	Boring Logs
46	1H5	Boring Logs
47	1H6	Boring Logs
48	1H7	Boring Logs
ADD. 48S-1	1H7A	Sign Structures: Likelike Highway Closure Traffic Control Plan
ADD. 48S-2	1H7B	Sign Structures: Likelike Highway Closure Traffic Control Plan
ADD. 48S-3	1H7C	Sign Structures: Likelike Highway Closure Traffic Control Plan
ADD. 48S-4	1H7D	Sign Structures: Likelike Highway Closure Traffic Control Plan
ADD. 48S-5	1H7E	Sign Structures Ramp TK @ Sta. 29+93 Traffic Control Plan - 1
ADD. 48S-6	1H7F	Sign Structures Ramp TK @ Sta. 29+93 Traffic Control Plan - 2
ADD. 48S-7	1H7G	Sign Structures Ramp TK @ Sta. 29+93 Traffic Control Plan - 3

SHEET

SHEET NO.

TITLE

ADD. 48S-8	1H7H	Sign Structures Relocated Likelike @ Sta. 9+78 Traffic Control Plan
ADD. 48S-9	1H7I	Sign Structures Relocated Likelike @ Sta. 9+78 Traffic Control Plan - 1
ADD. 48S-10	1H7J	Sign Structures Relocated Likelike @ Sta. 9+78 Traffic Control Plan - 2
ADD. 48S-11	1H7K	Sign Structures Relocated Likelike @ Sta. 9+78 Traffic Control Plan - 3

2. LANDSCAPING

49	2L1	Landscape Plan: Kaneohe Interchange
50	2L2	Landscape Plan: Kaneohe Interchange
51	2L3	Landscape Plan: Kaneohe Interchange
52	2L4	Landscape Plan: Kaneohe Interchange
53	2L5	Landscape Plan: Kaneohe Intechange
54	2L6	Landscape Plan: Halekou Interchange
55	2L7	Details, Plant List and Notes: Kaneohe/Halekou Interchange

3. END TREATMENT MODIFICATIONS

56	3C1	End Treatment Modifications: Haiku Approach Type 4H Concrete Guardrail
57	3C2	End Treatment Modifications: Haiku Approach Type 4H Concrete Guardrail
ADD. 57S-1	3C2A	End Treatment Modifications: Haiku Approach Traffic Control Plan

4. ADDITIONAL ROADSIDE GUARDRAIL

58	4C1	Additional Roadside Guardrail: Windward Highway Roadway Construction Plan
59	4C2	Additional Roadside Guardrail: Windward Highway Roadway Construction Detail
ADD. 59S-1	4C2A	Additional Roadside Guardrail: Windward Highway Traffic Control Plan
ADD. 59S-2	4C2B	Additional Roadside Guardrail: Windward Highway Traffic Control Plan

5. ADDITIONAL HIGHWAY LIGHTING

60	5E1	Additional Highway Lighting: Windward Highway Electrical Plan
61	5E2	Additional Highway Lighting: Windward Highway Typical Street Light Details
ADD. 61S-1	5E2A	End Treatment Modifications & Additional Highway Lighting: Traffic Control Plan
ADD. 61S-2	5E2B	Additional Highway Lighting: Traffic Control Plan

6. EMERGENCY CROSSOVER MODIFICATIONS

ADD. 62	6C1	Emergency Crossover: Typical Section
63	6C2	Emergency Crossover: Windward Highway End Treatment Upgrade
64	6C3	Emergency Crossover: Windward Highway Roadway Construction Plan
ADD. 65	6C4	Emergency Crossover: Windward Highway Barrier Detail - 1
66	6C5	Emergency Crossover: Windward Highway Barrier Detail - 2
67	6C6	Emergency Crossover: Windward Highway Drainage Detail
ADD. 67S-1	6C6A	Emergency Crossover: Windward Highway Traffic Control Plan - 1
ADD. 67S-2	6C6B	Emergency Crossover: Windward Highway Traffic Control Plan - 2
ADD. 67S-3	6C6C	Emergency Crossover: Windward Highway Traffic Control Plan - 3
68	6E1	Emergency Crossover: Windward Highway Plans
69	6E2	Duct Section Details
70	6E3	Emergency Crossover: Windward Highway Miscellaneous Electrical Details
71	6E4	Emergency Crossover: Windward Highway Miscellaneous Electrical Details
72	6Y1	Emergency Crossover: Windward Highway Systems Plan
73	6Y2	Emergency Crossover: Windward Highway Systems Detail - 1
74	6Y3	Emergency Crossover: Windward Highway Systems Detail - 2
ADD. 75	6Y4	Emergency Crossover: Windward Highway Systems Detail - 3
76	6Y5	Emergency Crossover: Windward Highway Systems Detail - 4

7. DRAINAGE GRATE REPLACEMENT

77	7C1	Drainage Grate Replacement Plan, Notes and Details
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8. MEETING ROOM MODIFICATIONS

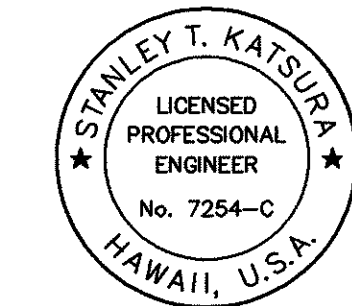
78	8A1	Meeting Room: Plan, Sections, Elevations and Details
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STATE (GUARDRAIL) POLICY

79	SP1	Guardrail Details & Notes (B-1)
80	SP2	Strong Post W-Beam Guardrail (B-2)
81	SP3	Strong Post W-Beam Guardrail (B-3)
82	SP4	Strong Post Rubrail (W-Beam) Guardrail (B-4)
83	SP5	Strong Post Modified Thrie-Beam Guardrail (B-5)
84	SP6	Guardrail Details (B-8)
85	SP7	Concrete Block Anchor Details (B-9C)
86	SP8	FLEAT-350 Flared Energy Absorbing Terminal (B-10)

LEGEND FOR SHEET NO.:

G	General
S	Structural
C	Civil
E	Electrical
Y	Systems
H	Geotechnical
L	Landscaping
A	Architectural
SP	State (Guardrail) Policy



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Stanley T. Katsura

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	I-H3-1(75), UNIT VI	1999	3	111

SHEET

SHEET NO.

TITLE

REFERENCE PLANS

87	-	FOR REFERENCE ONLY: Contract FAIP No. I-H3-1(72) Sign Frame Plan, Details and Schedule (T-22)
88	-	FOR REFERENCE ONLY: Contract FAIP No. I-H3-1(72) Sign Post and Connection Details (T-23)
89	-	FOR REFERENCE ONLY: Contract FAIP No. I-H3-1(72) Sign Post Anchorage Details, General Notes (T-24)
90	-	FOR REFERENCE ONLY: Contract FAIP No. I-H3-1(72) Sign Frame Sections and Ribbed Sheetmetal Details (T-26)
91	-	FOR REFERENCE ONLY: Contract FAIP No. I-H3-1(72) Luminaire Walkway Support, Sections and Details (T-30)
92	-	FOR REFERENCE ONLY: Contract FAIP No. I-H3-1(72) Mounting Beam Schedule and Sections (T-32)
93	-	FOR REFERENCE ONLY: Contract FAIP No. I-H3-1(66) Haiku Approach - Layout Plan 1 Support Structures (SS3)
94	-	FOR REFERENCE ONLY: Contract FAIP No. I-H3-1(66) Haiku Approach - Layout Plan 3 Support Structures (SS5)
95	-	FOR REFERENCE ONLY: Contract FAIP No. I-H3-1(66) Haiku Approach - Section 3 Support Structures (SS11)
96	-	FOR REFERENCE ONLY: Contract FAIP No. I-H3-1(66) Haiku Approach - Section 4 Support Structures (SS12)
97	-	FOR REFERENCE ONLY: Contract FAIP No. I-H3-1(66) Haiku Approach - Section 5 Support Structures (SS13)
98	-	FOR REFERENCE ONLY: Contract FAIP No. I-H3-1(66) Support Post Details - 1 Support Structures (SS16)
99	-	FOR REFERENCE ONLY: Contract FAIP No. I-H3-1(66) Support Post Details - 2 Support Structures (SS17)
100	-	FOR REFERENCE ONLY: Contract FAIP No. I-H3-1(66) Truss Framing Details Support Structures (SS18)
101	-	FOR REFERENCE ONLY: Contract FAIP No. I-H3-1(66) Truss Connection Details - 2 Support Structures (SS20)
102	-	FOR REFERENCE ONLY: Contract FAIP No. I-H3-1(66) Truss Connection Details - 3 Support Structures (SS21)
103	-	FOR REFERENCE ONLY: Contract FAIP No. I-H3-1(66) FM Sign Connection Details Support Structures (SS23)
104	-	FOR REFERENCE ONLY: Contract FAIP No. I-H3-1(66) VM Sign Connection Details Support Structures (SS24)
105	-	FOR REFERENCE ONLY: Contract FAIP No. I-H3-1(66) Haiku Approach - Walkway Plans Support Structures (SS26)
106	-	FOR REFERENCE ONLY: Contract FAIP No. I-H3-1(66) Walkway Details - 1 Support Structures (SS27)
107	-	FOR REFERENCE ONLY: Contract FAIP No. I-H3-1(66) Walkway Details - 2 Support Structures (SS28)
108	-	FOR REFERENCE ONLY: Contract FAIP No. I-H3-1(72) Street Light Standard Details (E20)
109	-	FOR REFERENCE ONLY: Contract FAIP No. I-H3-1(72) Street Light Standard from Edge of Shoulder Details (E20F)
110	-	FOR REFERENCE ONLY: Contract FAIP No. I-H3-1(72) Partial Street Light Distribution Online Diagram (H-3) (E24)
111	-	FOR REFERENCE ONLY: Contract FAIP No. I-H3-1(72) Partial Street Light Distribution Online Diagram (H-3) (E24A)

8-9-99	Added Revised Sheets
Date	Revision
STATE OF HAWAII DEPARTMENT OF TRANSPORTATION HIGHWAYS DIVISION	
LIST OF PLANS	
H-3 FINISH (UNIT VI) FAIP NO. I-H3-1(75), UNIT VI	
SCALE: NONE	DATE: APRIL 1999
SHEET NO. G3 OF 6 SHEETS	

ADD. 3

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	I-H3-1(75), UNIT VI	1999	4	111

GENERAL NOTES:

1.

The scope of work for this project includes modifying sign structures, end treatments, emergency crossover, median barriers and meeting room; landscaping; adding roadside guardrails and highway lighting; and replacing drainage grates.
2.

The Contractor is directed to the requirements of Subsection 108.01 – Subletting of Contract, which requires the Contractor to perform work with its own organization amounting to more than 50 percent of the total contract cost less deductible items. Non-compliance with the Subsection may be grounds for rejection of bid.
3.

The Contractor’s attention is directed to the following Sections of the Special Provisions : Subsection 107.13 – Public Convenience and Safety; Subsection 107.21 – Contractor’s Responsibility For Utility Property And Services; and Section 645 –Traffic Control Devices.
4.

At the end of each day’s work, the Contractor shall remove all equipment and other obstructions to permit free and safe passage of public traffic. The Contractor is directed to Subsection 104.04 – Maintenance of Traffic.
5.

The existence and location of underground utilities, manholes, monuments and structures as shown on the plans are from the latest available data but the accuracy is not guaranteed. The encountering of other obstacles during the course of work is possible. Repairs for any damages incurred to existing facilities and/or improvements as a result of the Contractor’s work shall be done at no additional cost to the State.
6.

The Contractor shall notify in writing, the Oahu Transit Services, Inc. Roads Supervision Office, 811 Middle St., Hon., HI 96819 (ph. #848-4571) seven (7) days prior to any paving operations.
7.

The Contractor shall notify the Engineer in writing, two (2) weeks prior to starting paving operations.
8.

The Contractor shall remove and dispose of all existing raised pavement markers, thermoplastic line markings, traffic tapes, and epoxy adhesives in conflict with the proposed work. This work shall be considered incidental to the various contract items and will not be paid for separately.
9.

Existing drainage system shall be functional at all times during construction. The Contractor is to furnish materials, equipment, labor, tools and incidentals necessary to maintain flow. This work shall be considered incidental to various contract items.
10.

The Contractor shall provide for access to and from all existing ramps at all times.
11.

All saw cutting work shall be considered incidental to the various contract items.
12.

The Contractor shall verify the location of all utility appurtenances designated for adjustment.

LEGEND

- Advance Warning Sign
- Conduit/Cable Note
- Construction Note
- Emergency Crossover Gate
- Emergency Crossover Gate Controller
- Closed Circuit Television Camera (CCTV-X)
- Street Lighting Standard and Foundation
- Existing Electrical Service
- Existing Pullbox
- Existing Traffic Controller

ABBREVIATION

- Baseline
- R/W

Right-Of-Way
- e.p.

Existing edge of pavement
- e.s.

Existing edge of shoulder
- LP

Light Pole
- COMM

Communications
- CMB

Concrete Median Barrier
- DIA

Diameter
- GND

Electrical Ground
- CS

Electrical Service Panel
- ECG (XX)

Emergency Crossover Gate
- ECGC (XX)

Emergency Crossover Gate Controller
- ETIB (XX)

Emergency Telephone Inbound
- ETOB (XX)

Emergency Telephone Outbound
- FO HUB (XX)

Fiber Optic Hub
- GRS

Galvanized Rigid Steel
- (XX) MM

Multimode Fiberoptic Cable
- NEMA

National Electrical Manufacturers Association
- PR

Pair
- PLC

Programmable Logic Controller
- RECPT

Receptacle
- SL

Street Lighting
- TC (XX)

Traffic Controller
- KVA

1,000 Volt Amps
- W/SHLD

With Shield

SURVEY PLOTTED BY

DATE

ORIGINAL PLAN

DESIGNED BY

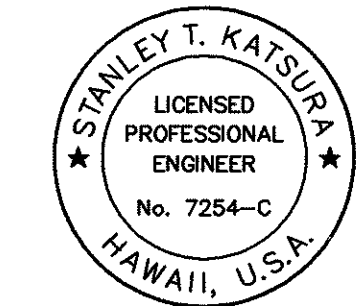
NOTE BOOK

CHECKED BY

No.

CAG by J. Minura, 5/9-92

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THIS WORK WAS PREPARED BY ME
OR UNDER MY SUPERVISION.

Stanley Katsura

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

GENERAL NOTES AND LEGEND

H-3 FINISH (UNIT VI)
FAIP NO. I-H3-1(75), UNIT VI

SCALE: NONE DATE: APRIL 1999

SHEET NO. G4 OF 6 SHEETS

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	I-H3-1(75), UNIT VI	1999	5	111

GRADING NOTES

- All grading work shall be done according to Chapter 23, Grading Soil Erosion and Sediment Control of the Revised Ordinances of Honolulu, 1978, as amended (Ordinance Nos. 81-13 and 90-71).
- The Contractor shall remove all silt and debris resulting from the Contractor's work and deposited in drainage facilities, roadways and other areas. The costs incurred for any necessary remedial action by the Engineer shall be payable by the Contractor.
- The Contractor shall keep the project area and surrounding area free from dust and other nuisance. The work shall conform to the air pollution standards and regulations of the State Department of Health.
- All slopes and exposed areas shall be hydro-mulch seeded as soon as final grades have been established according to the contract. Planting shall not be delayed until all grading work has been completed. Grading to final grade shall be continuous, and any area within which work has been interrupted or delayed shall be planted.
- Fills greater than 15 feet in height on slopes steeper than 5:1 shall be benched.
- No grading work shall be done on Saturdays, Sundays and Holidays at any time without prior written acceptance by the Engineer.
- The limits of the area to be graded shall be flagged by the Contractor before the commencement of the grading work.
- The City & County of Honolulu shall be informed of the location of the borrow/disposal site for the project when the application for a grading permit is made. The borrow/disposal site must also fulfill the requirements of the grading ordinance.
- All grading operations shall conform to the applicable provisions of Chapter 54, Water Quality Standards, and Chapter 55, Water Pollution Control, of Title 11, Administrative Rules of the State Department of Health.
- Temporary Erosion Control Plan and procedures shall be submitted by the Contractor for acceptance prior to the start of actual grading operations.
- Silt fence shall be installed along the edges of open channels & ditches in order to filter sediment from runoff, before water enters the channel.
- Temporary erosion controls shall not be removed before permanent erosion controls are in-place and established.

NATIONAL POLLUTANT DISCHARGE
ELIMINATION SYSTEM (NPDES) GENERAL NOTES

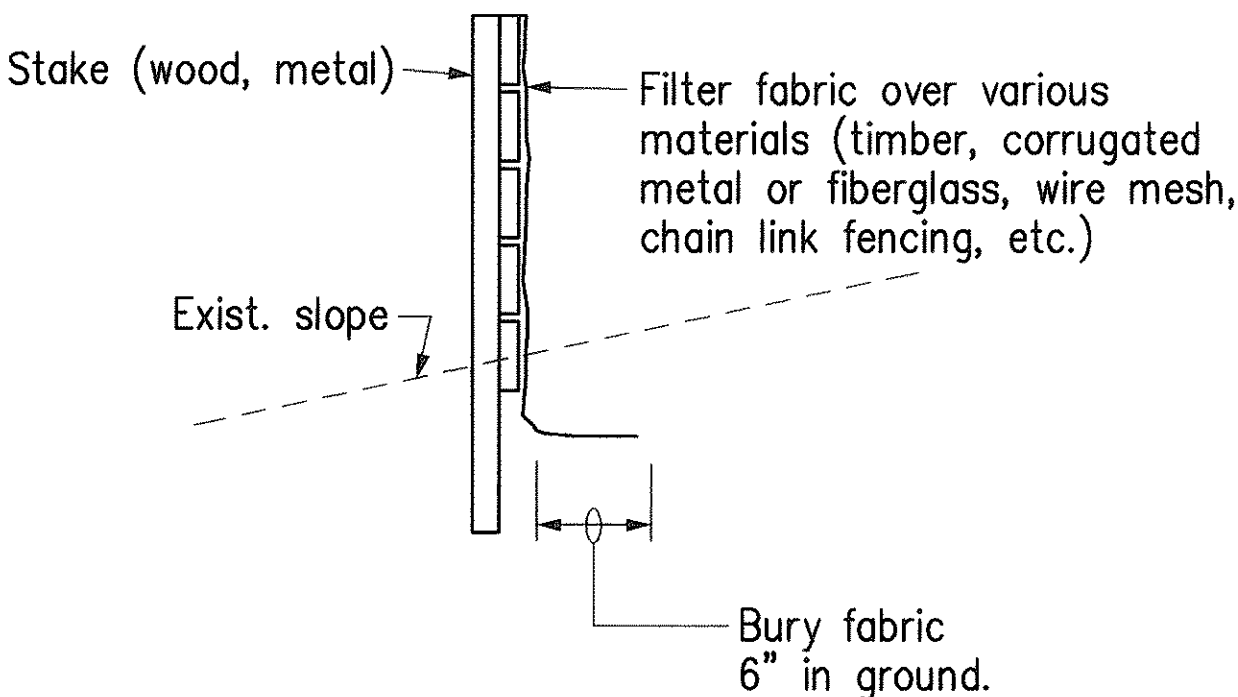
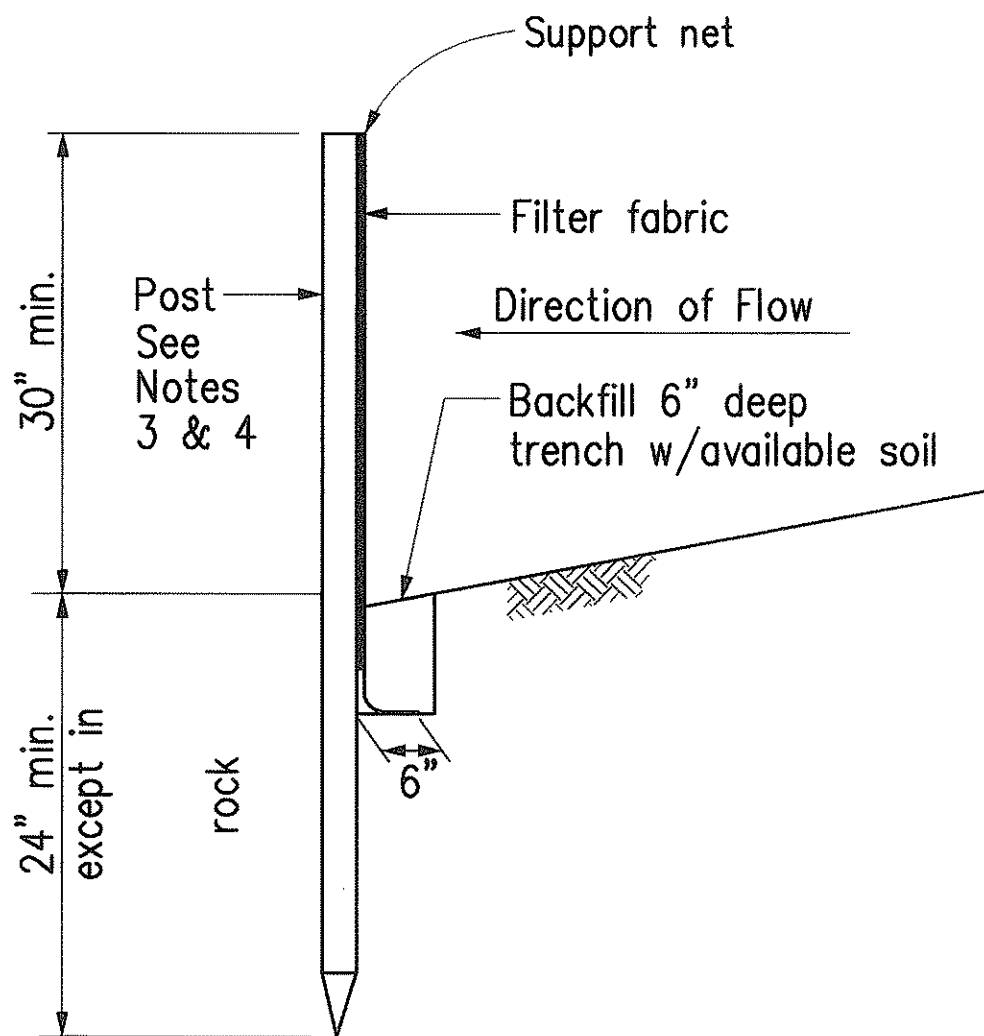
- (A) Erosion and Sediment Control Inspection and Maintenance Practices.
- The Contractor shall inspect the erosion and sediment control measures at least once a week or after 0.5 inches of rainfall.
 - The Contractor shall maintain the erosion and sediment control measures according to the contract. If a repair is necessary, the Contractor shall initiate the repairs within twenty-four (24) hours after the inspection such as:
 - When sediment build-up reaches one-third (1/3) the height of the silt fence, the Contractor shall remove and dispose of the sediment build-up from the silt fence.
 - When the depth of the sediment basin reaches ten percent (10%) of the design capacity, the Contractor shall remove and dispose of the sediment build-up.
 - When tears are found on the silt fence, the Contractor shall replace the fabric.
 - The Contractor shall check to see if the fabric is securely attached to the fence posts and to see that the fence posts are firmly in the ground.
 - The Contractor shall inspect the diversion dike and repair the breaches.
 - The Contractor shall inspect temporary and permanent seeding and planting for bare spots, washouts, and healthy growth.
 - The Contractor shall have its personnel make a maintenance inspection report promptly after each inspection. The Contractor shall select a minimum of three (3) personnel who will be responsible for inspection, maintenance, repair activities, and filling out the inspection and maintenance report. Personnel selected for the inspection and maintenance responsibilities will receive training from the Contractor. The Contractor shall train these personnel in the inspection and maintenance practices necessary for keeping the erosion and sediment control measures used onsite. The cost of training, inspecting and maintaining erosion and sediment control measures shall be at no cost to the State.
- (B) Submittal Requirements:
- Construction activities of five (5) acres or more.
 - Storm water discharges into State waters due to construction activities of Five (5) acres or more, will require an NPDES permit from the Department of Health (DOH). The Contractor shall submit to the Engineer four (4) sets of Site-Specific Best Management Plans (BMP). The BMP shall be submitted no later than thirty (30) calendar days after the award of Contract.
 - No construction activities will be authorized until the Contractor's Site-Specific BMP has been accepted by the Engineer.
 - Construction activities dewatering and/or hydrotesting water.
 - Discharges into State waters due to dewatering and/or hydrotesting activities will require NPDES Permit(s) from DOH. If the Contractor opts to discharge dewatering and/or hydrotesting effluent into State waters, the Contractor shall submit to the Engineer four (4) sets of Site-Specific Dewatering and /or Hydrotesting BMP, and four (4) copies of the Quality of Discharge Test results. The Plans and test results shall be submitted no later than thirty (30) calendar days after the award of Contract.
 - No dewatering and/or hydrotesting activities will be authorized until the receipt of the NPDES Permit(s) from DOH.

SILT FENCE NOTES

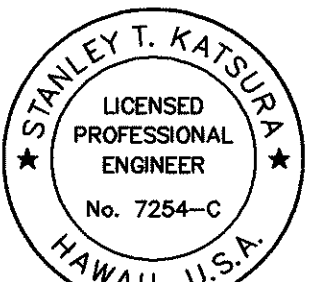
- Filter fabric shall be of the type specified and installed in combination with a support net of polyester netting or approved equal. The filter fabric shall be a minimum of 36 inches wide and the support net a minimum of 30 inches.
- If silt fence is obtained from manufacturer as a package (i.e. fabric attached to post) the manufacturers installation instructions shall be adhered to.
- Posts shall be metal where possible, cross section of post will be substantial enough to support a loaded silt fence without bending. Post spacing shall be 4 feet to 8 feet, depending on post size.
- Some manufacturers only supply silt fence with wooden post. During installation, measures should be taken to prevent damage to post.

LEGEND

- 270----- Existing Contours
—————270————— Proposed Contours
----- or ----- Silt Fence
----- Limit of Grading



SILT FENCE DETAIL
Not to Scale

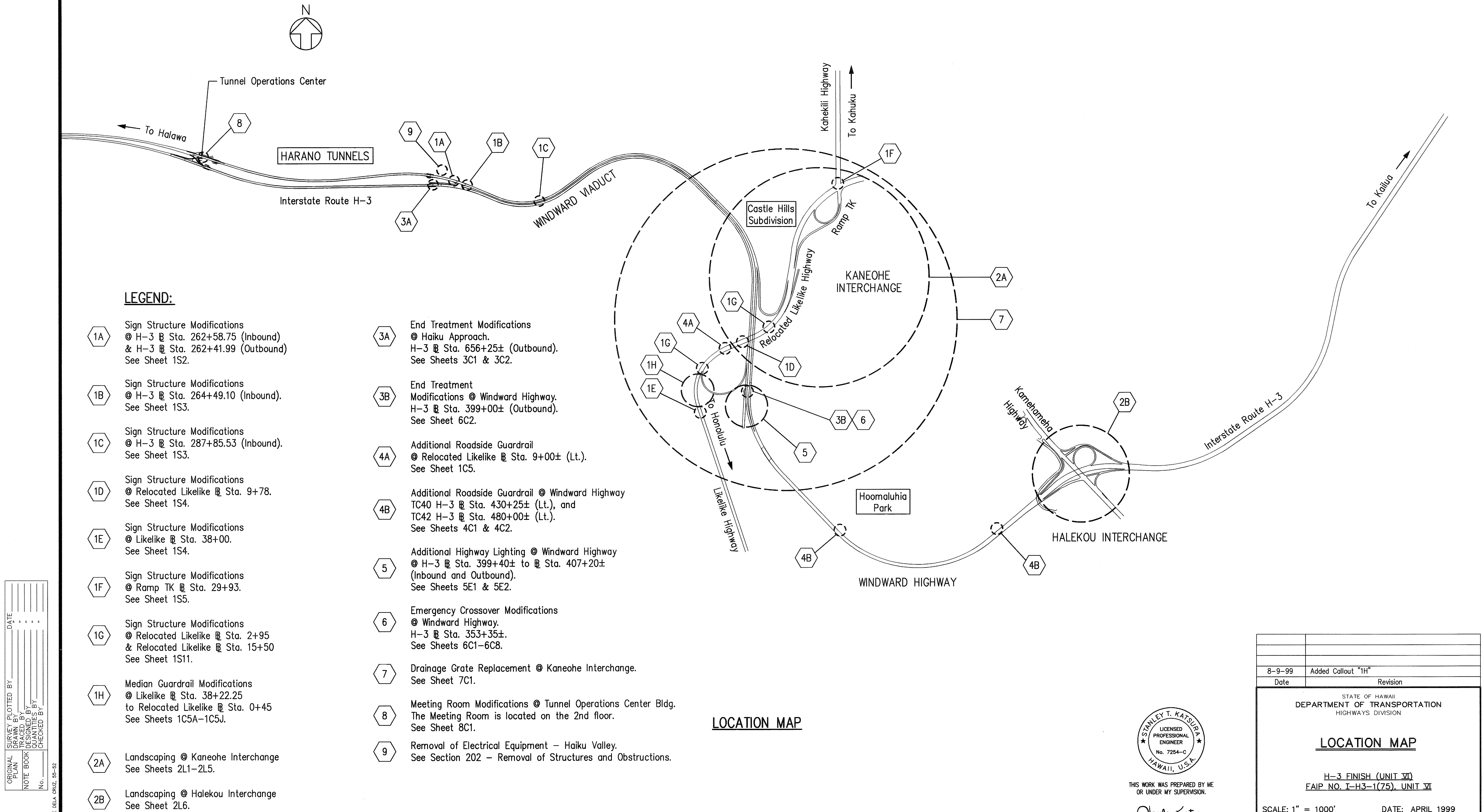


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Stanley T. Katsura

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION
**GRADING NOTES
EROSION AND SEDIMENT
CONTROL MEASURES**
H-3 FINISH (UNIT VI)
FAIP NO. I-H3-1(75), UNIT VI
SCALE: AS SHOWN DATE: APRIL 1999
SHEET NO. G5 OF 6 SHEETS

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	I-H3-1(75), UNIT VI	1999	6	111



LEGEND:

- 1A

Sign Structure Modifications
@ H-3 Sta. 262+58.75 (Inbound)
& H-3 Sta. 262+41.99 (Outbound)
See Sheet 1S2.
- 1B

Sign Structure Modifications
@ H-3 Sta. 264+49.10 (Inbound).
See Sheet 1S3.
- 1C

Sign Structure Modifications
@ H-3 Sta. 287+85.53 (Inbound).
See Sheet 1S3.
- 1D

Sign Structure Modifications
@ Relocated Likelike Sta. 9+78.
See Sheet 1S4.
- 1E

Sign Structure Modifications
@ Likelike Sta. 38+00.
See Sheet 1S4.
- 1F

Sign Structure Modifications
@ Ramp TK Sta. 29+93.
See Sheet 1S5.
- 1G

Sign Structure Modifications
@ Relocated Likelike Sta. 2+95
& Relocated Likelike Sta. 15+50
See Sheet 1S11.
- 1H

Median Guardrail Modifications
@ Likelike Sta. 38+22.25
to Relocated Likelike Sta. 0+45
See Sheets 1C5A-1C5J.
- 2A

Landscaping @ Kaneohe Interchange
See Sheets 2L1-2L5.
- 2B

Landscaping @ Halekou Interchange
See Sheet 2L6.
- 3A

End Treatment Modifications
@ Haiku Approach.
H-3 Sta. 656+25± (Outbound).
See Sheets 3C1 & 3C2.
- 3B

End Treatment
Modifications @ Windward Highway.
H-3 Sta. 399+00± (Outbound).
See Sheet 6C2.
- 4A

Additional Roadside Guardrail
@ Relocated Likelike Sta. 9+00± (Lt.).
See Sheet 1C5.
- 4B

Additional Roadside Guardrail @ Windward Highway
TC40 H-3 Sta. 430+25± (Lt.), and
TC42 H-3 Sta. 480+00± (Lt.).
See Sheets 4C1 & 4C2.
- 5

Additional Highway Lighting @ Windward Highway
@ H-3 Sta. 399+40± to Sta. 407+20±
(Inbound and Outbound).
See Sheets 5E1 & 5E2.
- 6

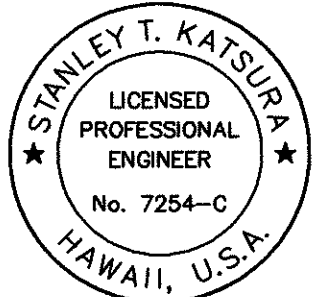
Emergency Crossover Modifications
@ Windward Highway.
H-3 Sta. 353+35±.
See Sheets 6C1-6C8.
- 7

Drainage Grate Replacement @ Kaneohe Interchange.
See Sheet 7C1.
- 8

Meeting Room Modifications @ Tunnel Operations Center Bldg.
The Meeting Room is located on the 2nd floor.
See Sheet 8C1.
- 9

Removal of Electrical Equipment - Haiku Valley.
See Section 202 - Removal of Structures and Obstructions.

LOCATION MAP



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OR UNDER MY SUPERVISION.

Stanley T. Katsura

8-9-99	Added Callout "1H"
Date	Revision
STATE OF HAWAII DEPARTMENT OF TRANSPORTATION HIGHWAYS DIVISION	
LOCATION MAP	
H-3 FINISH (UNIT VI) FAIP NO. I-H3-1(75), UNIT VI	
SCALE: 1" = 1000'	DATE: APRIL 1999
SHEET NO. G6 OF 6 SHEETS	

ORIGINAL
PLAN
DATE
DRAWN BY
TRACED BY
NOTE BOOK
DESIGNED BY
QUANTITIES BY
CHECKED BY
No.

CAD by E. DELA CRUZ, 55-52